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Age Group	1970 (%)	1980 (%)	1990 (%)
15-24	~15	~15	~35
25-34	~45	~45	~40
35-44	~45	~45	~48
45-54	~45	~45	~40
55-64	~45	~45	~48
65+	~45	~45	~40

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Figure 1C

1441 GAATGATGAGGAGGTTTAACTAACTAACTAATAAAGTTTTGAAAAATTAATATATAAA 1446

1441 AAAAAAAAAA CUGL

Figure 2A

		1	51
K+betaM6	(1)	MALALNTEELPNSSSSSSSSTSSSSAEPLFFDIPLNNGGQVYVRFRC	
KCNMB1	(1)	-----MTHKLMA,KESETFALPLVTMVCAVITYYILVTVL	
K+Hnov27	(1)	---MARLLITSEFAPLEN,GIPTPA,LTENAPVHIDVGGHMYTSSLA	
K+Hnov28	(1)	-----MNSLWPTMTDFVTLNNGGHLVTTSLT	
KIAA1317	(1)	---KNSMALSENFFVYFPEIGSAPNPFPEVPLNNGGQVYVRFHS	
CG10465	(1)	-----KSEEMSSDHILLKSHNSQVLEPLNNGGHLVTTIG	
CG10830	(1)	-----MPEIIEPLNNGGNSYTTILA	
K+channel_tetra	(1)	-----MTSVEDVITLNGGTMVTTIRS	
		51	100
K+betaM6	(51)	IVVSTPDSLTNFMETQQ----QPQELAROSKCRFFELDRDGFLFRYILDYI	
KCNMB1	(43)	PTQMSWTQESKCHLIETNIRDQELKGKFNQYPCLWVNVSAAGRKAV	
K+Hnov27	(47)	TLTKYTESRIGRLDCTEP-----IVLDSLKHVIFDRDGQMFYILNEL	
K+Hnov28	(13)	TLTRYPDSMLGAMFGGDFP-----TARDPQSNVIFDRDGPLFRYILNEL	
KIAA1317	(49)	TLISIPHSLEKFMFSPEK--DTANDLAKDSKCRFFIDRDGFLFRYILDYI	
CG10465	(36)	TLTKNNDTMLSAMFSGR-----MEVLTDSEGVILIDRCGNHFGITLNYL	
CG10830	(23)	TLQDKSTLGAELFEGE-----RDSLAKDSKGRVFLDRDGVLFRYILDYI	
K+channel_tetra	(23)	TLSKETDTLANIASGSLSEDEQANVVTLPDCTLEVDRDGPLEAVVHEI	
		101	150
K+betaM6	(97)	RDLQVLDPYFPERSRLOREAEYFELPELVRELGAPQQPGGPPPSRRGV	
KCNMB1	(90)	LYHTEDTRDNQOCSYIPGSVDNYCTARADVEKVRKAFQEQQ-----	
K+Hnov27	(92)	RTSKLLIPDCSKDYTLTYBEAKYFOLQPMLEMERWKQDRET-----	
K+Hnov28	(73)	RTSETLPLERKEFDLIRKEADFYQIEPLIQCNNDPKPLYF-----	
KIAA1317	(97)	RDRQVLPDEHPEKGRIFREAEYFOLPDLVKLTPDEIKQS--P-----	
CG10465	(83)	RDGTVPLEETNKEIAELLAEAKYVCITELAISCEALYAHQEPKPICFIP	
CG10830	(65)	RDKAHLPECFRRRQRLREAEHFKLTAMLECIRSERDARE-----	
K+channel_tetra	(73)	RTDKLSLPECFREVARLKDEADFYRLERFSTLSSNASSISP-----	
		151	200
K+betaM6	(147)	HKEGSLGDELLPLGYSEPEQQEGASAGAPSPTELEASRSPSGGAAGPLLT	
KCNMB1	(131)	-----	
K+Hnov27	(144)	-----	
K+Hnov28	(114)	-----	
KIAA1317	(139)	-----DEFCHSDFEDASQ-----GSDTRICP	
CG10465	(130)	LITSQKEEQLLSVSLKPAVILVVQRQNN-----KYSYTSYS	
CG10830	(106)	-----P-----	
K+channel_tetra	(114)	-----RPRTANG	
		201	250
K+betaM6	(197)	PSQSLDGSRRSGYITIGYRGSYTIGRDAQADAKFRRVARITVCGKTSIAK	
KCNMB1	(132)	-----VFYCFSAAPRGNETSVLFQRLYGPQALLFSLFWPTFLITGGLL	
K+Hnov27	(134)	-----GRFSRPCECLVVRVAPDLGERITLSGDKSLIEEVFPEIG	
K+Hnov28	(114)	-----MDTFEEVVELSTRELKSKYSNPVAVIITQLTITTKVHSL	
KIAA1317	(160)	PSSLLPADRFKCGFITVGYRGSCITLGREGQADAKFFRVPRILVCGRISIAK	
CG10465	(167)	DDNLLKHIELFDKLSLRFNERILFIKDVIGPSEICQWSEFYGHGKVAEVC	
CG10830	(107)	-----CGITIGYRGSFQFGKDGADVHFEHLRILVCGRVAQCR	
K+channel_tetra	(121)	YNTITSGAETCGYITLGYRG-----	
		251	300
K+betaM6	(247)	EVFGDTLNEGRDPDRP-PEVYTSRYYLKFNFLQAFDKLSESEFHMVACS	
KCNMB1	(174)	IIAMKKNQYLSILAAQH-----	
K+Hnov27	(173)	DVMNSVNGSNHDSHWIRFPLNGYCHLNSVQVLERLQ-QRSEFIVGSC	
K+Hnov28	(154)	EGISNYFTKNKHHMDTDCQNSFTFGPCDYHQETSLRVHLMEYITKQGF	
KIAA1317	(210)	EVFGETLNEGRDPDRA-PEVYTSRYYLKFNHLEAFDMLSECFHMVACN	
CG10465	(217)	CTGINTATDKHTKVEFPEARIYEETLVLLNDRNAPQELMCAATSSAR	
CG10830	(146)	EVFGETLNEGRDPDHSSTDVYTSRFFLKHVYIEAFDNLHDECYFMAGST	
K+channel_tetra	(141)	-----	

Figure 2B

		331	351
K+betaM6	(196)	STATAFAGNT--D,EDKINTSYTEYWFDE	-----
KCNMB1	(192)	-----	-----
K+Hnov27	(257)	SSAVSSFLRYTLREELRRTPRPVVFIELEFL	-----
K+Hnov28	(238)	TIRNIFTHHMRPANTVEHNTFRLARKIDF	-----
KIAA1317	(354)	SENTAFIN---QYDDKINSSYTEYWFYEFLEKUPCHL	-----
CG10465	(302)	VGNASSTEIN, YTSDEEEERTSLARLRNNEIN	-----
CG10830	(229)	GGSTASSAAEPKPGVDTTEENRWNYNEFVIFD	-----
K+channel_tetra	(141)	-----	-----
		351	400
K+betaM6	(326)	-----	-----
KCNMB1	(192)	-----	-----
K+Hnov27	(257)	-----	-----
K+Hnov28	(238)	-----	-----
KIAA1317	(354)	GDHESESSTCHDLSTSSSDSQSEASSPQETVICSPVTRITNIQLDRPI	-----
CG10465	(302)	-----	-----
CG10830	(229)	-----	-----
K+channel_tetra	(141)	-----	-----
		401	450
K+betaM6	(326)	-----	-----
KCNMB1	(192)	-----	-----
K+Hnov27	(257)	-----	-----
K+Hnov28	(238)	-----	-----
KIAA1317	(354)	KKGPVQLIQQSEMRKSDLLRTLTSGRRESNMSSKKKAVKEKLSIEEELE	-----
CG10465	(302)	-----	-----
CG10830	(229)	-----	-----
K+channel_tetra	(141)	-----	-----
		451	482
K+betaM6	(326)	-----	-----
KCNMB1	(192)	-----	-----
K+Hnov27	(257)	-----	-----
K+Hnov28	(238)	-----	-----
KIAA1317	(404)	KCIQDFLKIFIPDRFPERKHPWQSELLRKYHL	-----
CG10465	(302)	-----	-----
CG10830	(229)	-----	-----
K+channel_tetra	(141)	-----	-----

Figure 3

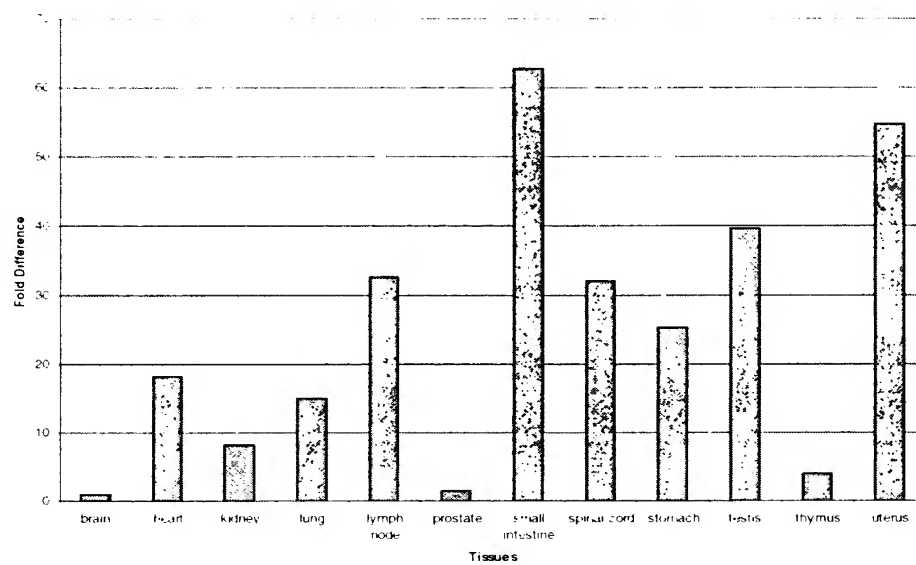


Figure 4.

<u>Protein</u>	<u>Genbank / SWISS- PROT Accession No.</u>	<u>Identities</u>	<u>Similarities</u>
human Maxi-K potassium channel beta subunit, KCNMB1 protein	gi14758625	0.0%	37.5%
human potassium channel K+Hnov27 protein	gi1Y34125	30.21%	39.15%
human potassium channel K+Hnov28 protein	gi1Y34129	30.04%	38.63%
Caenorhabditis elegans K+ channel tetramerisation domain containing protein	gi13880445	31.11%	39.26%
Drosophila CG10465 protein	gi117946205	23.9%	33.0%
Drosophila CG10830 protein	gi17300672	50.89%	62.5%
human KIAA1317 protein	gi17243015	60.42%	69.97%

